Product Data Sheet
P series Pressurized PVDF UF Module

DuPont™ IntegraTec™ XP 77

Modules for Open Platform

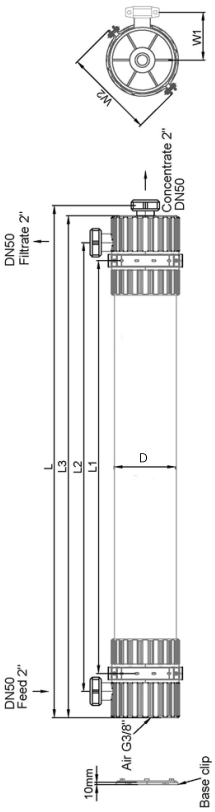
(previously DuPont™ IntegraFlux™ SFD-2880XP)

Key Features

- Proven XP™ Hydrophilic PVDF Fiber:
  - Superior fouling and chlorine resistance.
  - High colloidal particulate, bacteria, and virus log removal rate.
  - Excellent filtration permeability.
  - Easy cleaning and wettability.
- Optimized Module Design:
  - Open platform design to adapt with customer built skids.
  - High active filtration area to maximize productivity.
  - High operation recovery with high air scouring tolerance.
  - Reduced chemical consumption with maintenance cleanings protocol.
  - Robust materials for long lifetime.
  - Easy installation and low maintenance.

Key Applications

- High recovery and large size filtration in:
  - Municipal drinking water.
  - Industrial utility water.
  - Industrial wastewater reuse.
  - Municipal wastewater filtration.
  - RO pretreatment.



Module Specification

General		
Part No / GMID	12091620	
Mode of Filtration	Out-In Pressurized	
Membrane Type	Hollow fiber	
Membrane Material	PVDF (Polyvinylidene Fluoride)	
Membrane Pore Size	0.03 µm	
Module Operating Process	Dead-end	
Other Wetted Module Components	Polyurethane, uPVC, EPDM, and ABS	
Dimensions		
Active Membrane Area	77 m²	829 ft²
Module Length Overall (L)	2,360 ± 3.0 mm	92.9 ± 0.1 inch
Module Length (L3)	2,320 ± 3.0 mm	91.3 ± 0.1 inch
Module Length (L2)	2,130 ± 3.0 mm	83.9 ± 0.1 inch
Module Length (L1)	2,000 ± 3.0 mm	78.7 ± 0.1 inch
Module Diameter (D)	225 mm	8.9 inch
Module Width (W1)	180 mm	7.1 inch
Module Width (W2)	342 mm	13.5 inch
Feed / Filtrate port DN50 (F)	51 mm	2.0 inch
Weight and Volume		
Shipping Weight	73 kg	161 lbs.
Weight Empty	61 kg	134 lbs.
Weight Filled	100 kg	220 lbs.
Hold-Up Volume Feed (Clean-In-Place = CIP)	37 L	9.8 gal
Hold-Up Volume Membrane Structure (CIP)	14 L	3.7 gal
Hold-Up Volume Filtrate (CIP)	10 L	2.6 gal

Certified to NSF/ANSI 61

Suggested Operating Conditions

General	Details	
Operating Temperature Range	1 - 40 °C	34 - 104 °F
Operating pH	2 - 11	
Cleaning pH	2 - 12	
Typical Filtration Trans-Membrane Pressure (TMP)	0.4 - 1.5 bar	5.8 - 21.8 psi
Typical Backwash TMP	0.6 - 2.0 bar	8.7 - 29.0 psi
Backwash Type	Air scour with liquid backwash	
Backwash Flux	100 L/(m²h)	58.8 gfd
Backwash Flow	7.7 m³h	34.0 gpm
Operating Limits (Maximum)		
Rate of Pressure Change	0.5 bar/sec	7.3 psi/sec
Inlet Pressure	6.25 bar (at 20 °C)	90.7 psi
Filtration TMP	2.1 bar	30.5 psi
Backwash TMP	2.5 bar	36 psi
Filtration Flux	110 L/(m²h)	64.5 gfd
Filtration Flow	8.5 m³h	37.4 gpm
Backwash Flux	120 L/(m²h)	70.6 gfd
Particle Size	300 µm	
Exposure NaOCl	≤ 1,500,000 ppm x h	
Recommended max. instantaneous exposure NaOCl	2,000 ppm	

General Information

- Avoid any abrupt pressure variations during start-up, operation, shutdown, cleaning or other sequences to prevent possible membrane damage. The maximum pressure change allowable is 0.5 bar/s.
- For assembly please refer to the latest version of the DuPont™ IntegraTec™ PVDF-UF Out-In P Series Modules for Open Platforms Assembly Manual (Form No. 45-D02507-en).
- If operating limits and guidelines given in this document are not strictly followed, any warranty will be null and void.
- To control biological growth during extended system shutdowns, storage solution has to be introduced into the membrane modules.

Regulatory Note

- Certified drinking water modules require specific conditioning procedures prior to producing potable water. For operating parameters, please refer to the DuPont™ IntegraTec™ Pressurized UF Out-In P Series Process and Design Guidelines (Form No. 45-D00874-en).
- Drinking water modules may be subjected to additional regulatory restrictions in some countries. Please check local regulatory guidelines and application status before use.
- Flushing needs to be done according to the DuPont™ IntegraTec™ PVDF-UF Out-In P Series Modules for Open Platforms Assembly Manual (Form No. 45-D02507-en).

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